

## ABSTRACT OF THE INVENTION

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2       Methods and apparatus for beverage dispensing are provided with a carbonator (12) that  
3 includes a plurality of hydrophobic hollow fibers (32). A pre-carbonation circuit (28) may  
4 also be included. A water treatment system (14) may be used to supply water to the  
5 carbonator (12) and/or the pre-carbonation circuit (28).